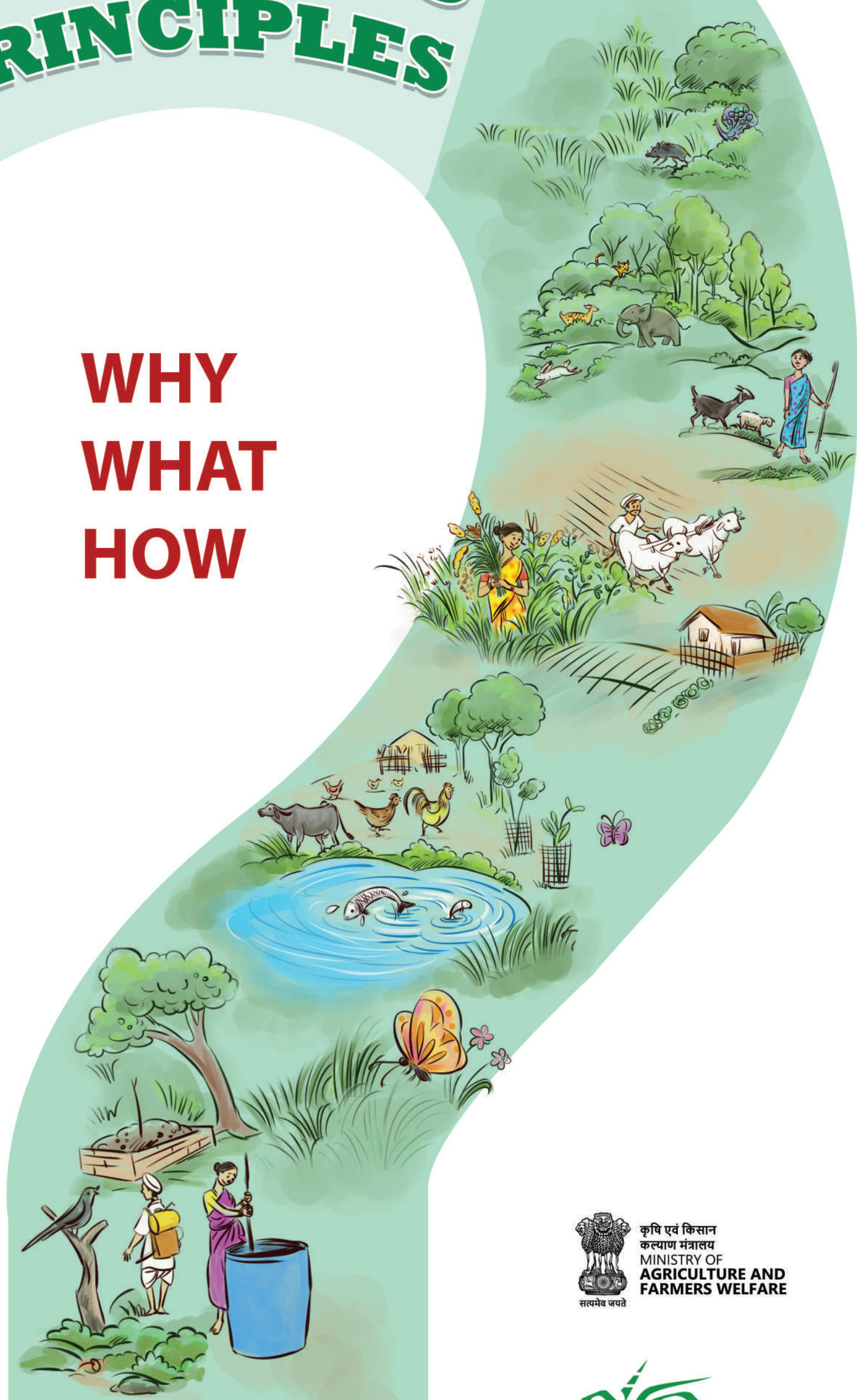
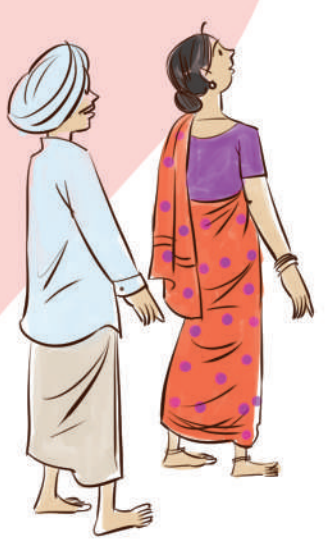
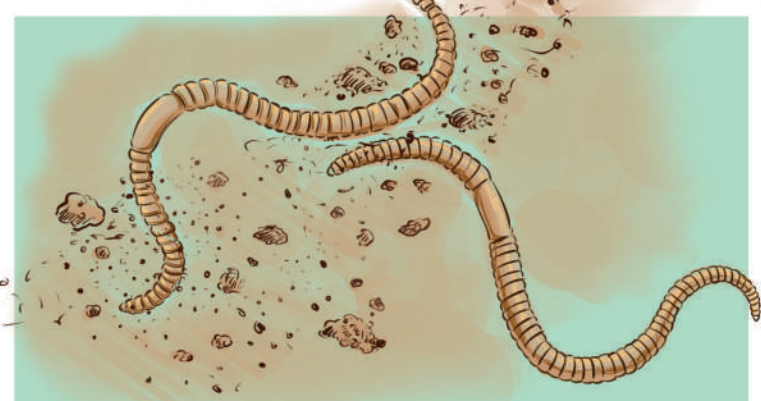


UNDERSTANDING NATURAL FARMING PRINCIPLES

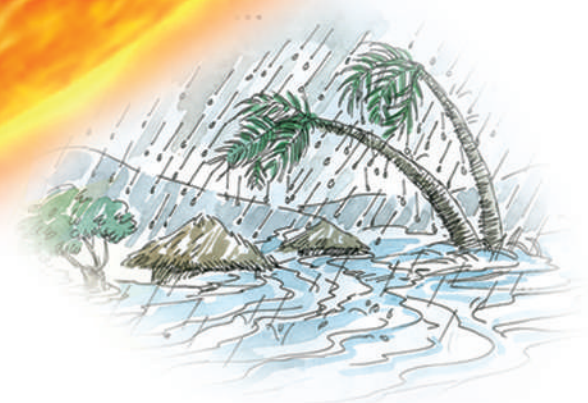
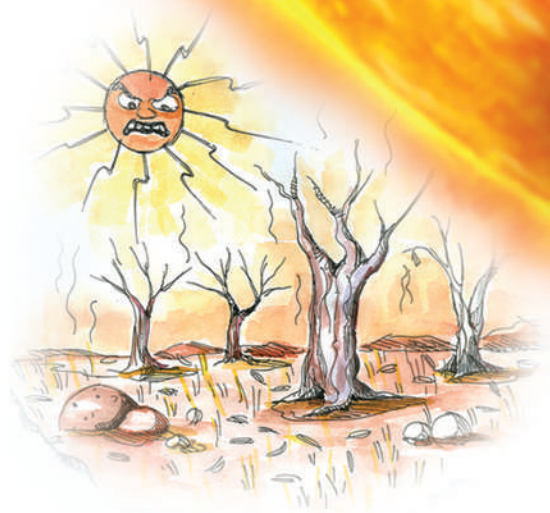
**WHY
WHAT
HOW**



Awareness Generation Material on Natural Farming



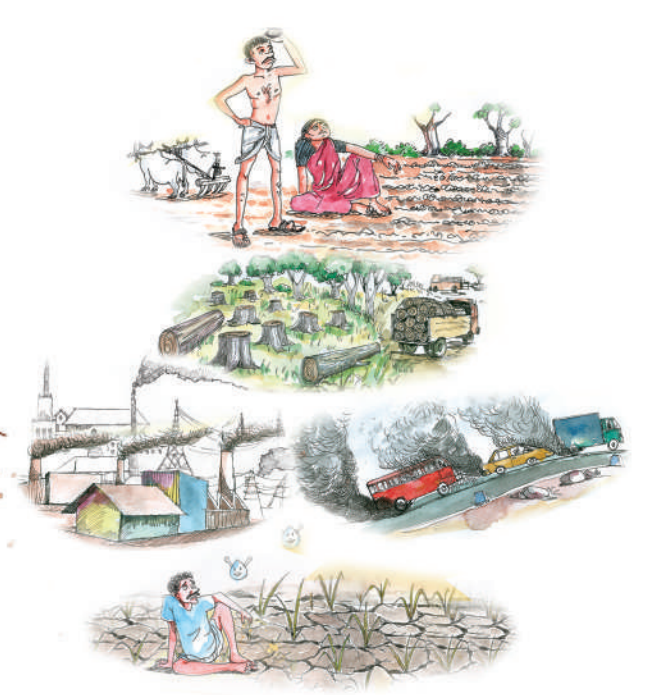
Have you observed?



Environment is Degrading



Climate is Changing



Risk becoming Unbearable!

Everything has become Poisonous !

Costs increasing but pests & diseases are not controlled



Ill effects on humans (Cancer strains)



Reduced incomes and increased risks like a see-saw game!

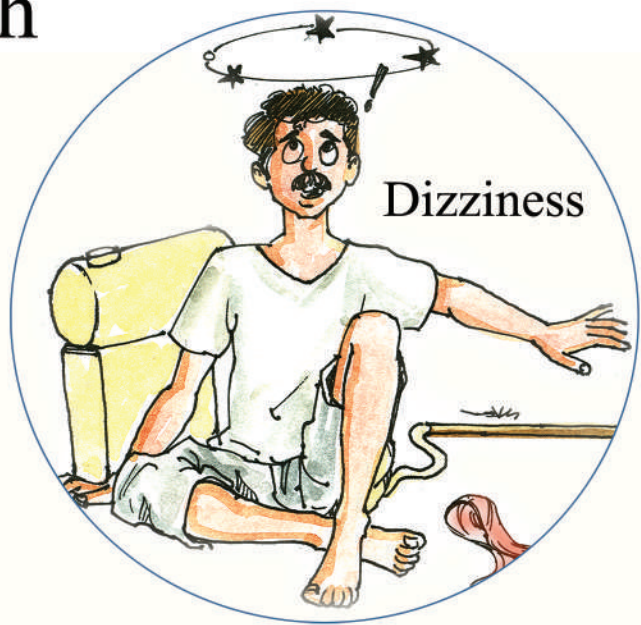
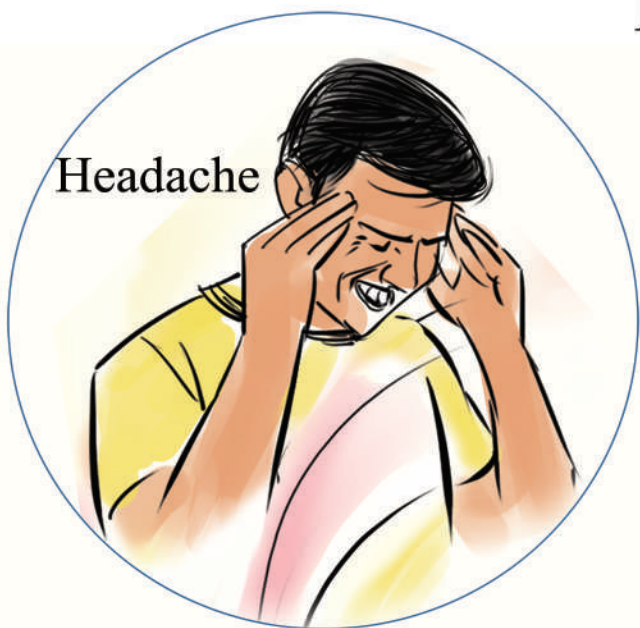


Effects of Pesticides

It is a Poisonous Trap
Everything it harms us



Effects on Human Health



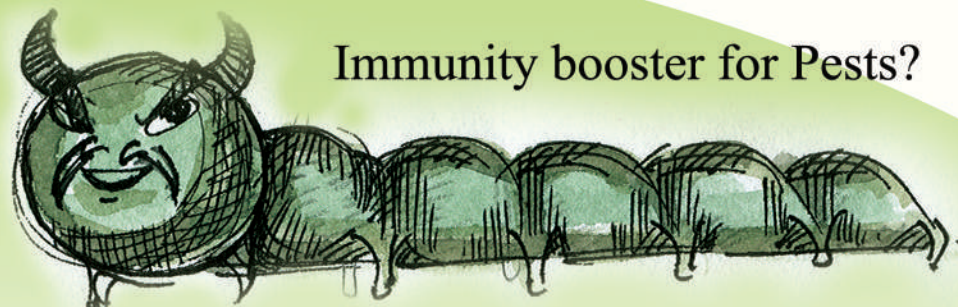
... Several such negative effects on humans (short term & long term)

Effects on Environment

Threatening Living System



Immunity booster for Pests?



Some become pesticide resistant ...
Chance for some more new Pests



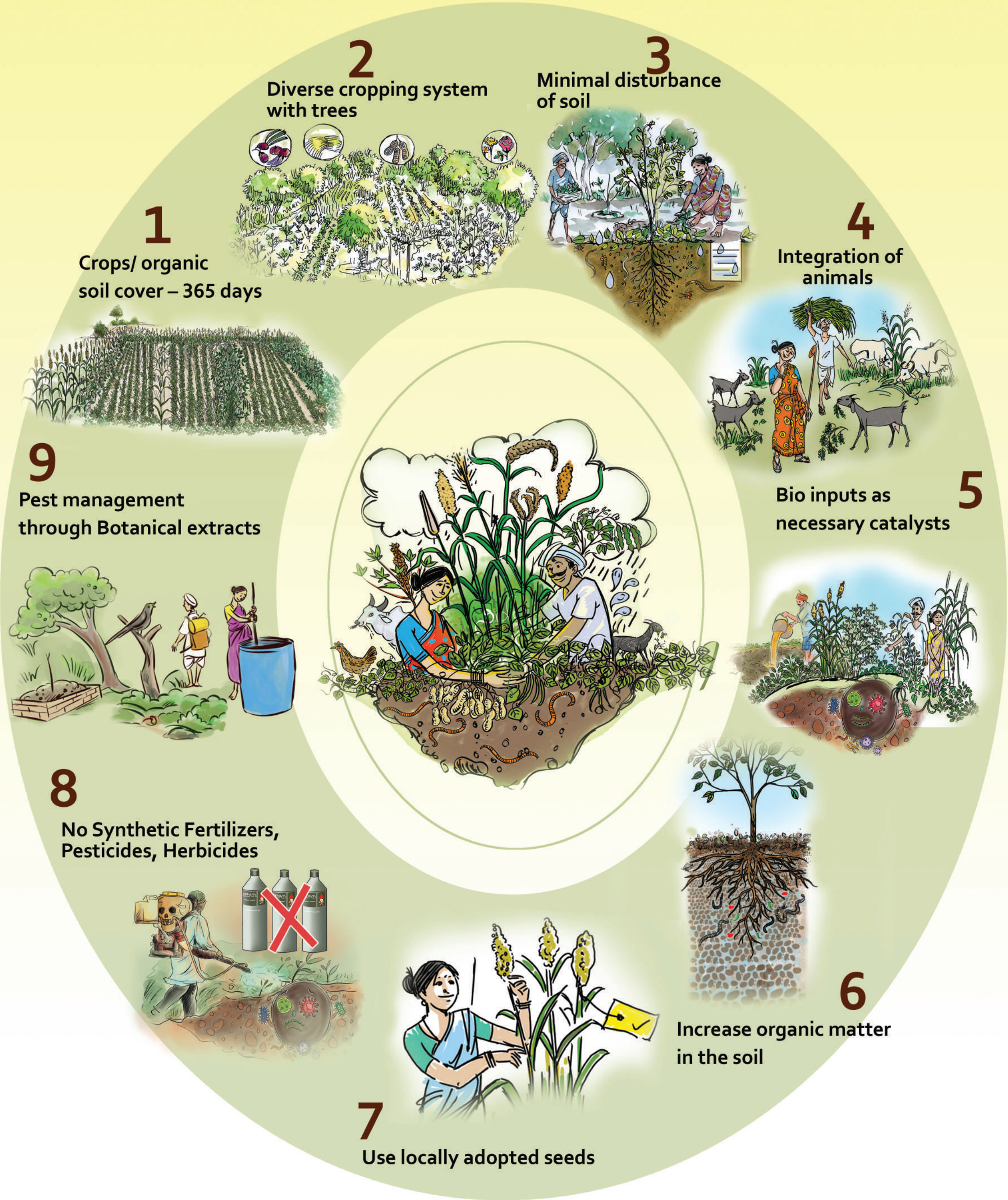
LET US FILL LIFE ...

In our Soils, in our own Lives and our Environment



Key Principles of Natural Farming

Possible only with Farmers' Collectives



Components of Natural Farming

Seed treatment



Using Local seeds and treating the seeds with Beejamrith

Soil Nutrient Enhancement



Using Farm inputs like Jeevamrit
Enhancing nutrient availability to plants

Soil Cover (Mulching)



Managing the soil cover for 365 days with live crop or crop residues



Soil Porosity



Ensuring both air and water molecules in soil cavities

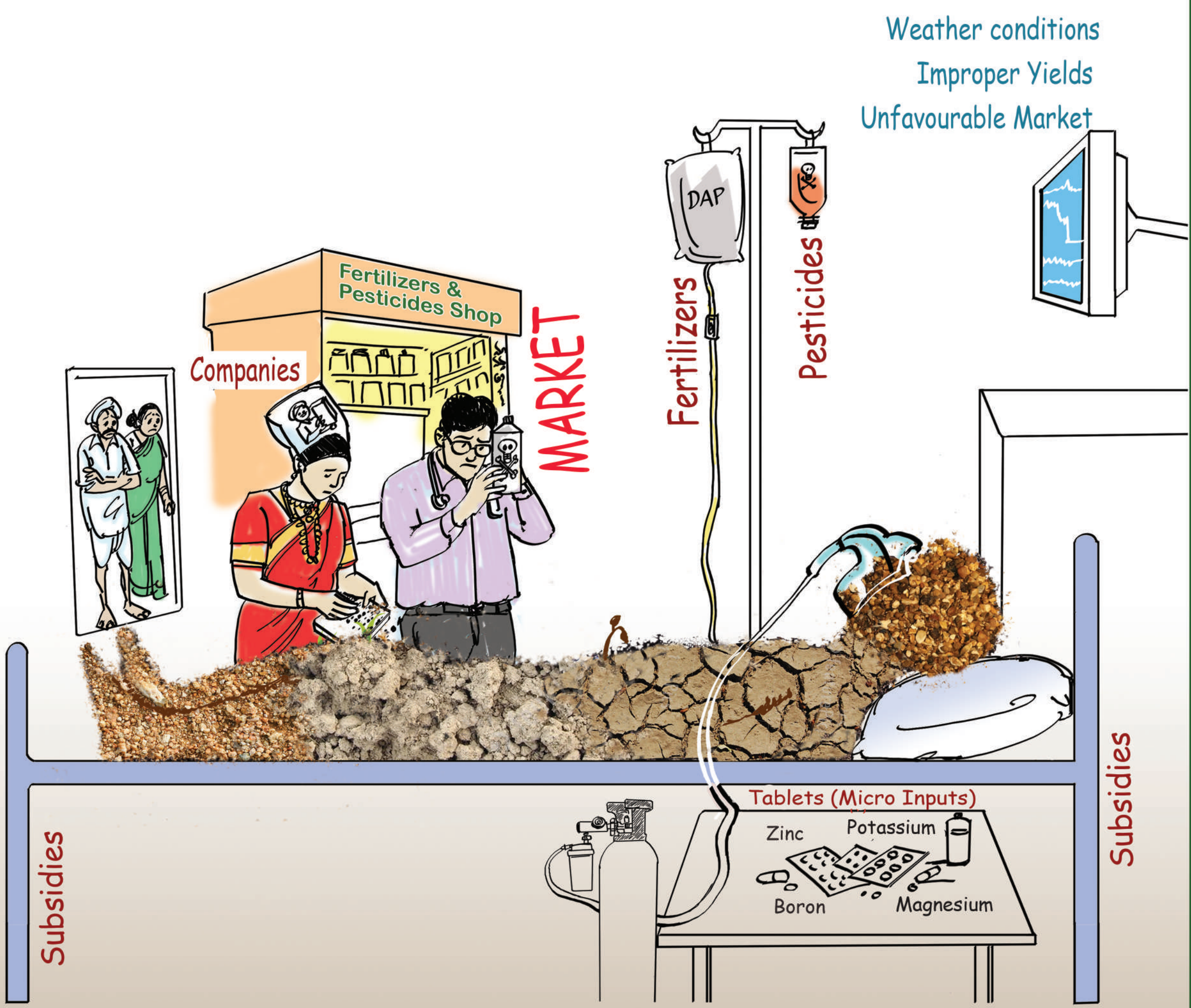
Plant Protection



Through Integrated Natural Farming Practices -
Diverse crops and Need based inputs

Our Soils are in ICU

Can we remain passive observers?



How long we sustain them artificially?

How about your Soil...?

I've Black Soil



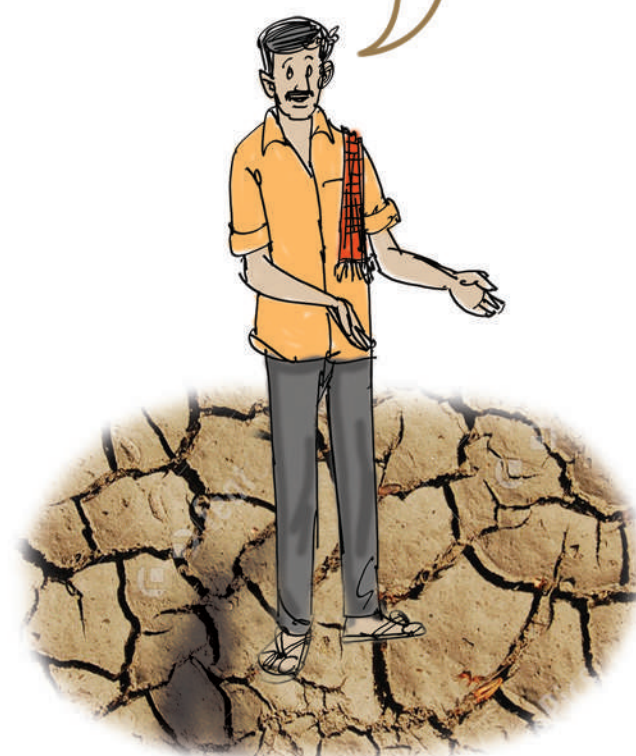
Water gets stagnant even for a small rain... crop gets damaged with inundation...

It's Red Soil



Water sinks so deep into the soil that even roots cannot reach... without sufficient moisture, crop growth is affected...

Mine is Saline...!!

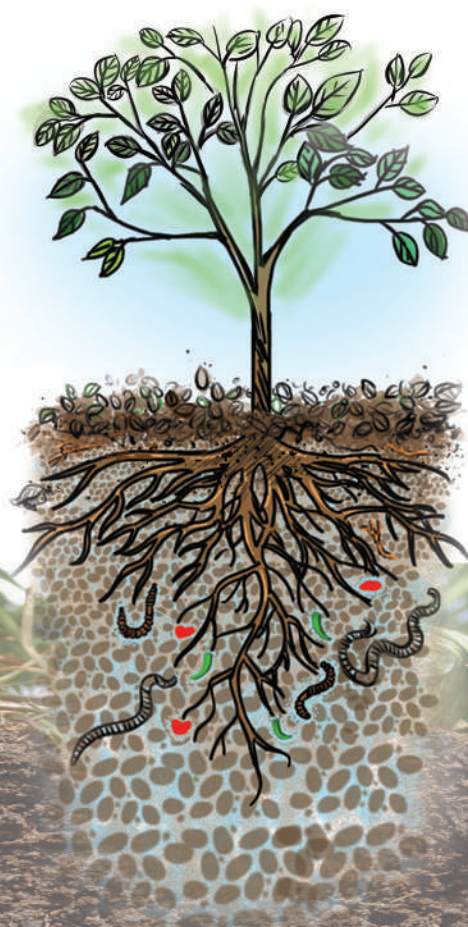


With heavy salinity, there is no strength in soil.. Whatever seed I sow, it does not germinate...

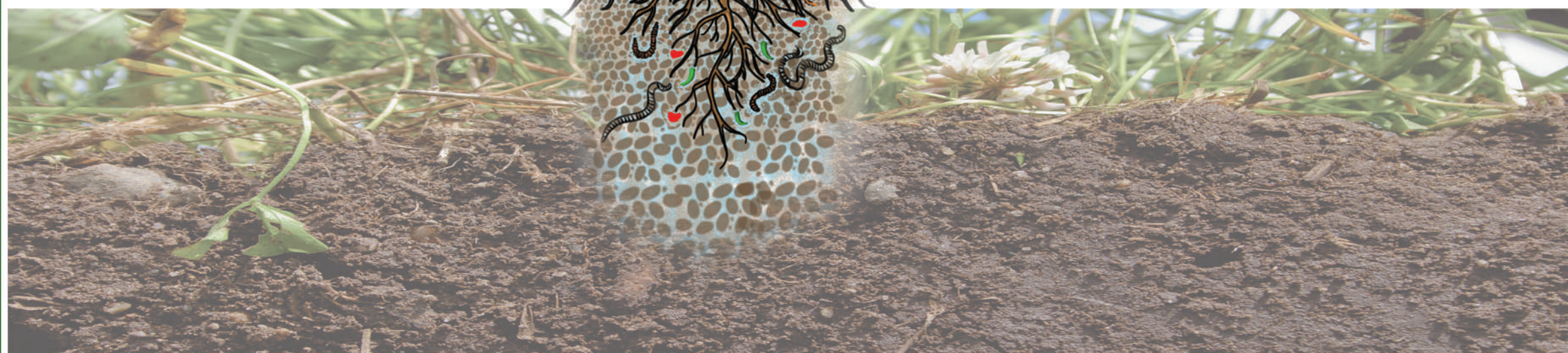
Whatever type of soil it may be...

It should have Water holding capacity and improved biological activity

It should contain...
Organic matter
Green cover



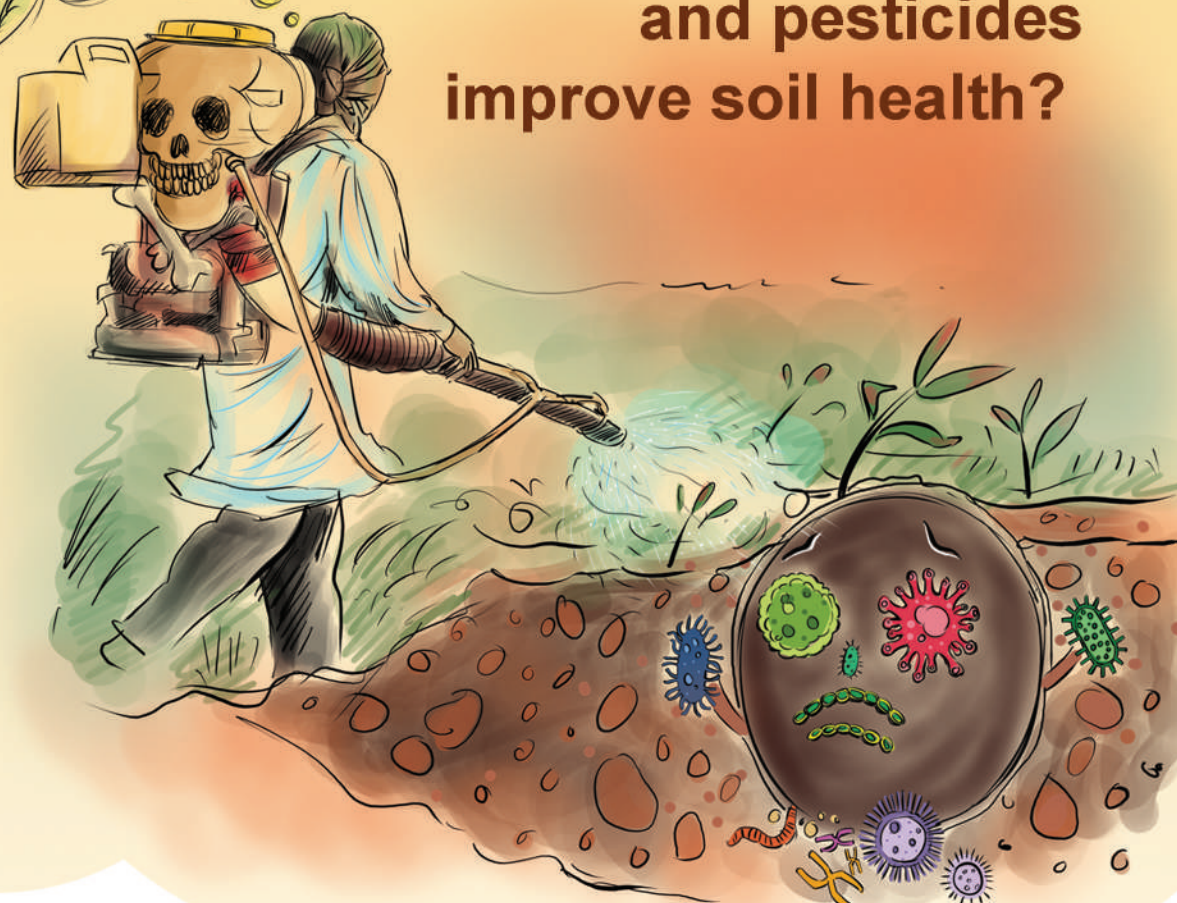
it should have...
Moisture retention capacity
Water holding capacity



What is good for Soil Health?..



Does using
chemical fertilizer
and pesticides
improve soil health?

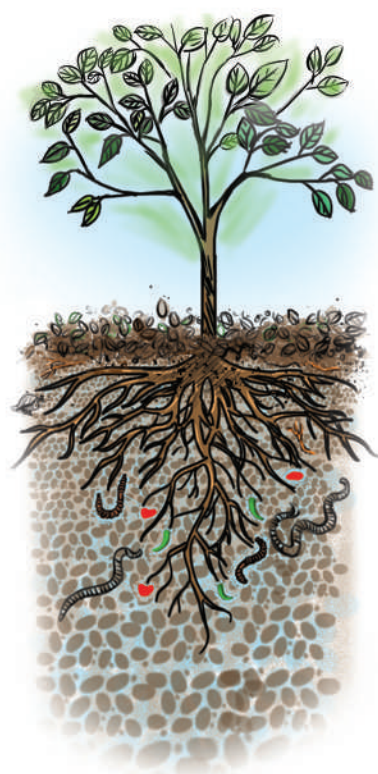


No,
in fact they are
degrading the
soil properties
and it's health

Why should we improve soil properties?

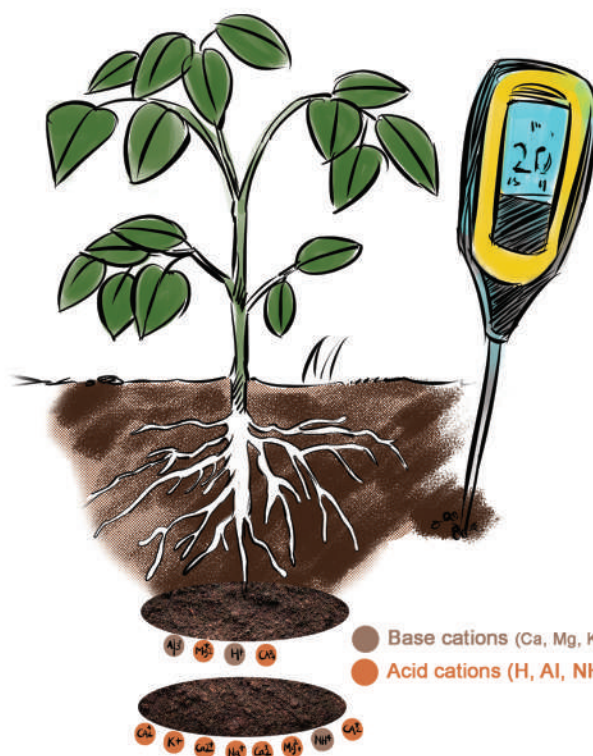
Improved Physical, chemical properties

Facilitates soil aeration
Enhances soil aggregation
Improves water holding capacity



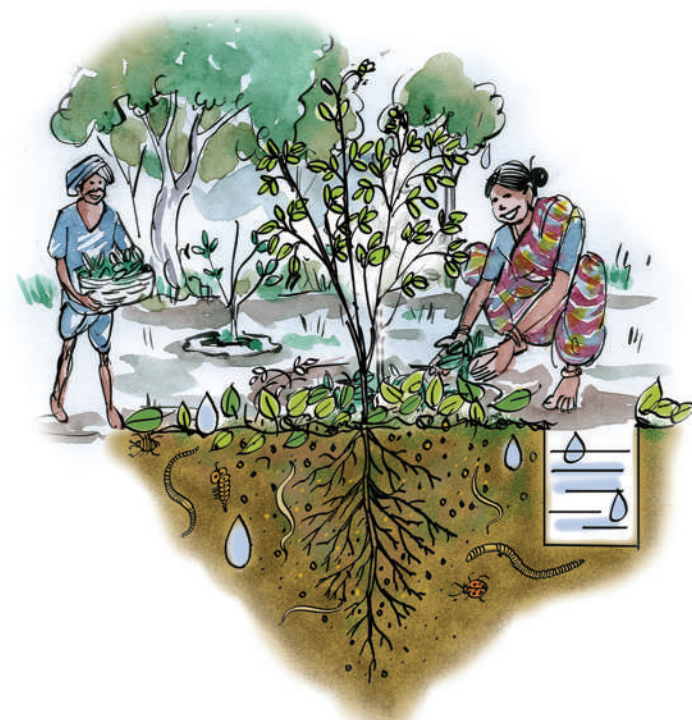
Increase the soil organic carbon

Balances pH
Cation exchange



Improve the Biological activity

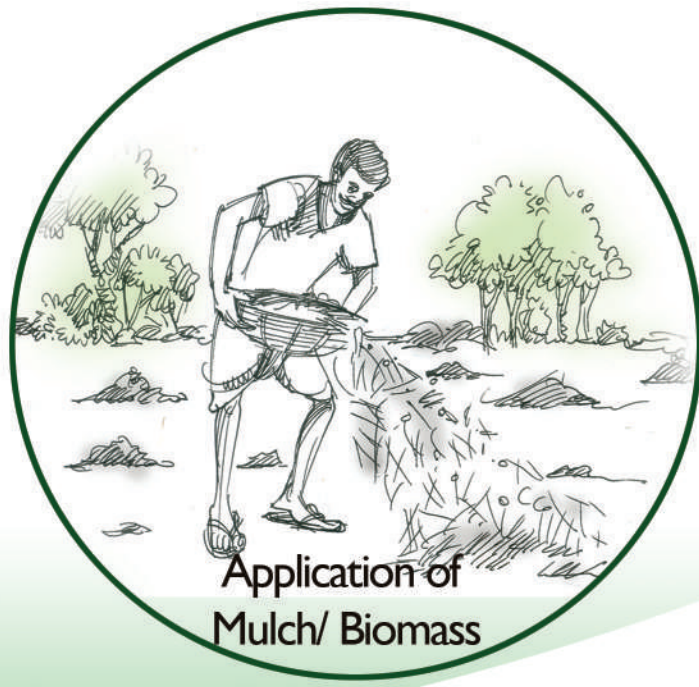
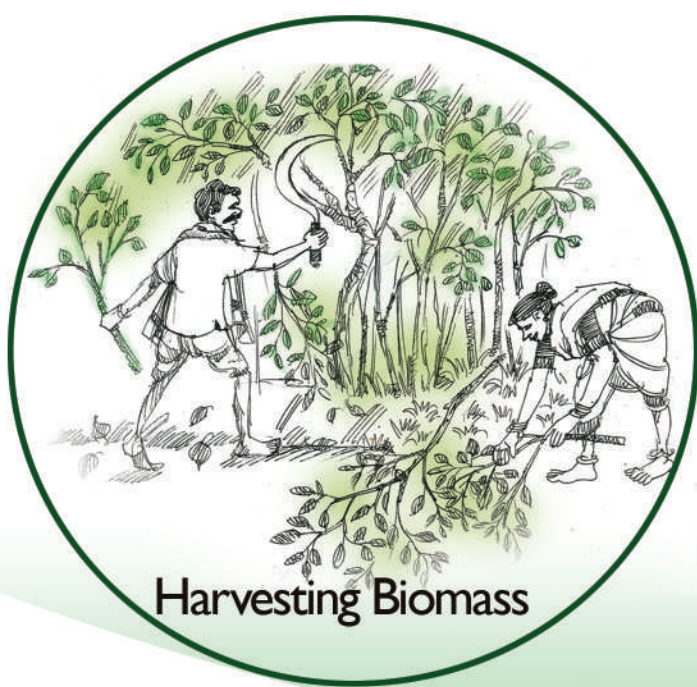
Encourages more 'life' in the soil
(with increased number of earthworms, microbes etc)
Improves soil biology
(Due to Bio inputs, Soil cover/ Multi cropping)



**"Natural Farming starts with
Regenerating Life in the Soils"**

Enhancing Soil Health Through Innovative Practices

Cultivating Biomass on Bunds for On-Farm Use



Raising crops for In-situ application

Diverse Green Manuring Crops/ Pre-Monsoon Dry Sowing



Relay Cropping



Covering the Soil with Mulch



Measures to Improve Soil Health

Reducing Tillage



Managing Field Residues



Application of On - Farm Cow based Manures



Drava Jeevamrutham



I am thinking to adopt
natural farming principles
or improving our soil health
and net income!!



An excellent idea with
numerous advantages –
from revitalizing soil health
and providing livestock feed
to boosting net incomes

Cover the Soil with Diverse Crops & Trees



Healthy & Nutritious
Food for Family

365 days



1/3rd feeds livestock



Multiple
Benefits



1/3 rd goes into soil



Increased
Net Income to Farmer

Farm Field is the best source for Organic Matter!



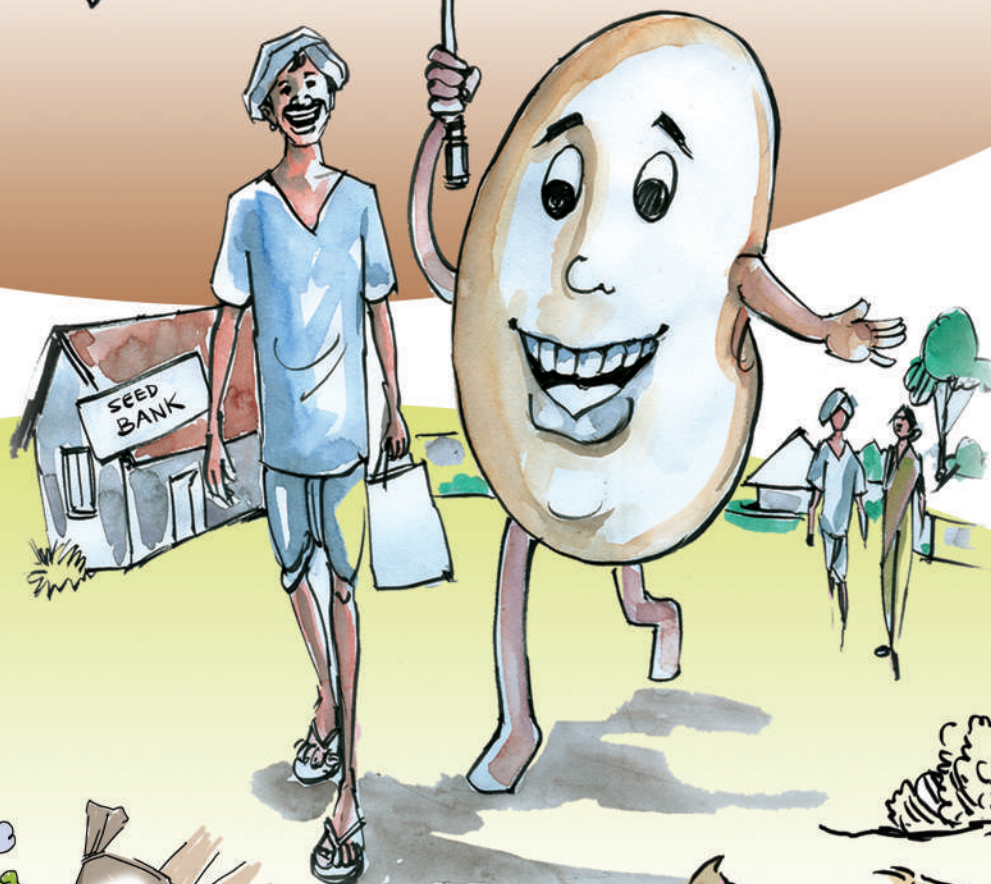
Diversified Crops need Diversified Seeds...

**Why
Struggle
with
Market
Seed?**

**Use
Local
Seeds for
Natural
Resilience &
Adaptability**



Suitable to Local Soils



**Quality under
farmer's control**



Suitable to Local Climate



Withstand rainfall variations



Availability in time

Once Farmers used own Seeds...! Why Can't Now?



Harvesting for seed



Suitable Varieties



Control over Production



Multiple Varieties



Saving for Future Needs

Ensuring Farmer/Community Control over Seeds



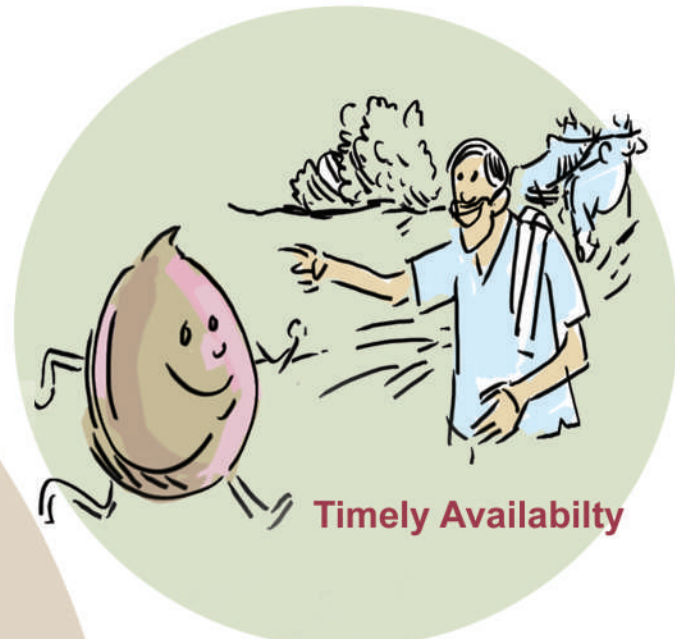
Suitable for Local Conditions



Sufficient Quantity



Local Availability



Timely Availability



Assured Quality



Seeds for Diverse Crops

Transition of Farmers from Conventional Practices to Natural Farming

3rd Year



2nd Year



Arranging
Local seeds
& analysing
suitability



Crop yield
analysis



1st Year



Arrangements
for Cow urine/
Dung collection



Preparation of
on field inputs



Confidence on all the
NF practices - Seed to Seed
(Jeevamrit, Mulching,
Intercrops etc)

Farmers try a few/all
NF practices in some patch
of their agricultural lands



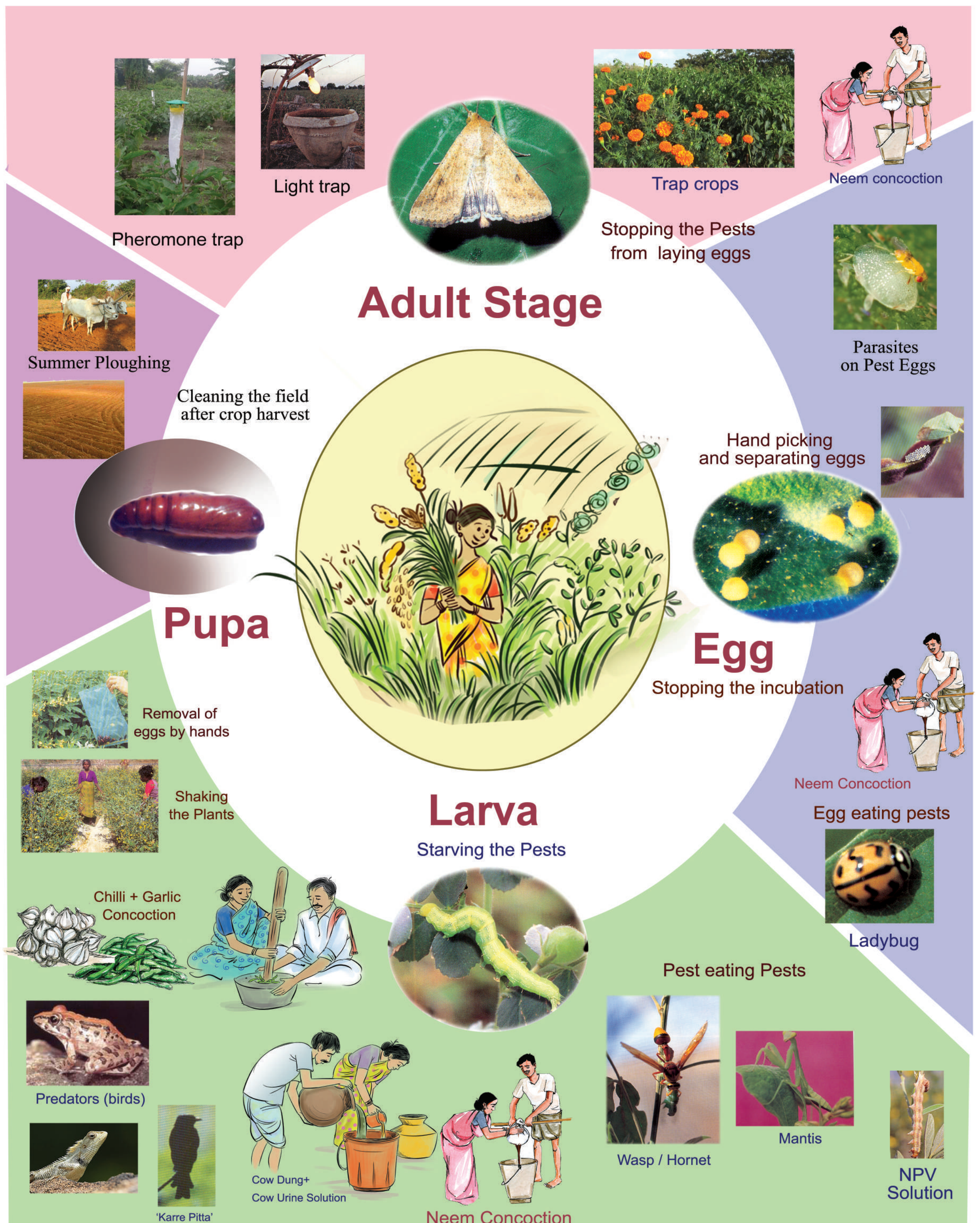
Krishi Sakhi
training farmers



Field visit
Prakritik Kheti Paathshala

Farmers ready
to try Natural Farming
in Kitchen gardens
for self-consumption

Natural Pest Management

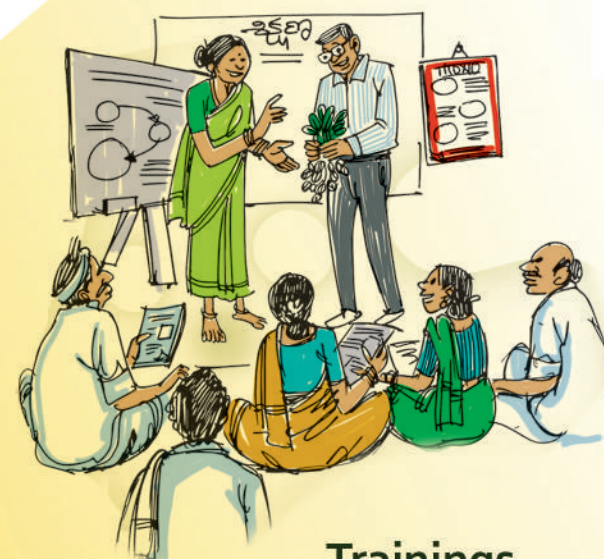


Key Strengths to Natural Farming

Farmers' Knowledge & Local Innovations



Field Demonstrations



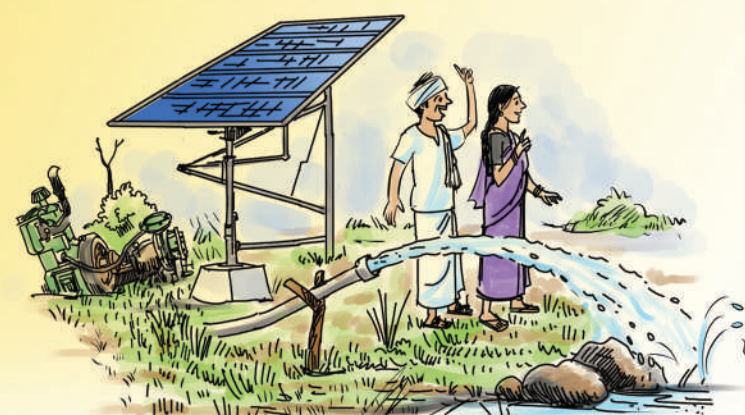
Trainings



Farmer to Farmer

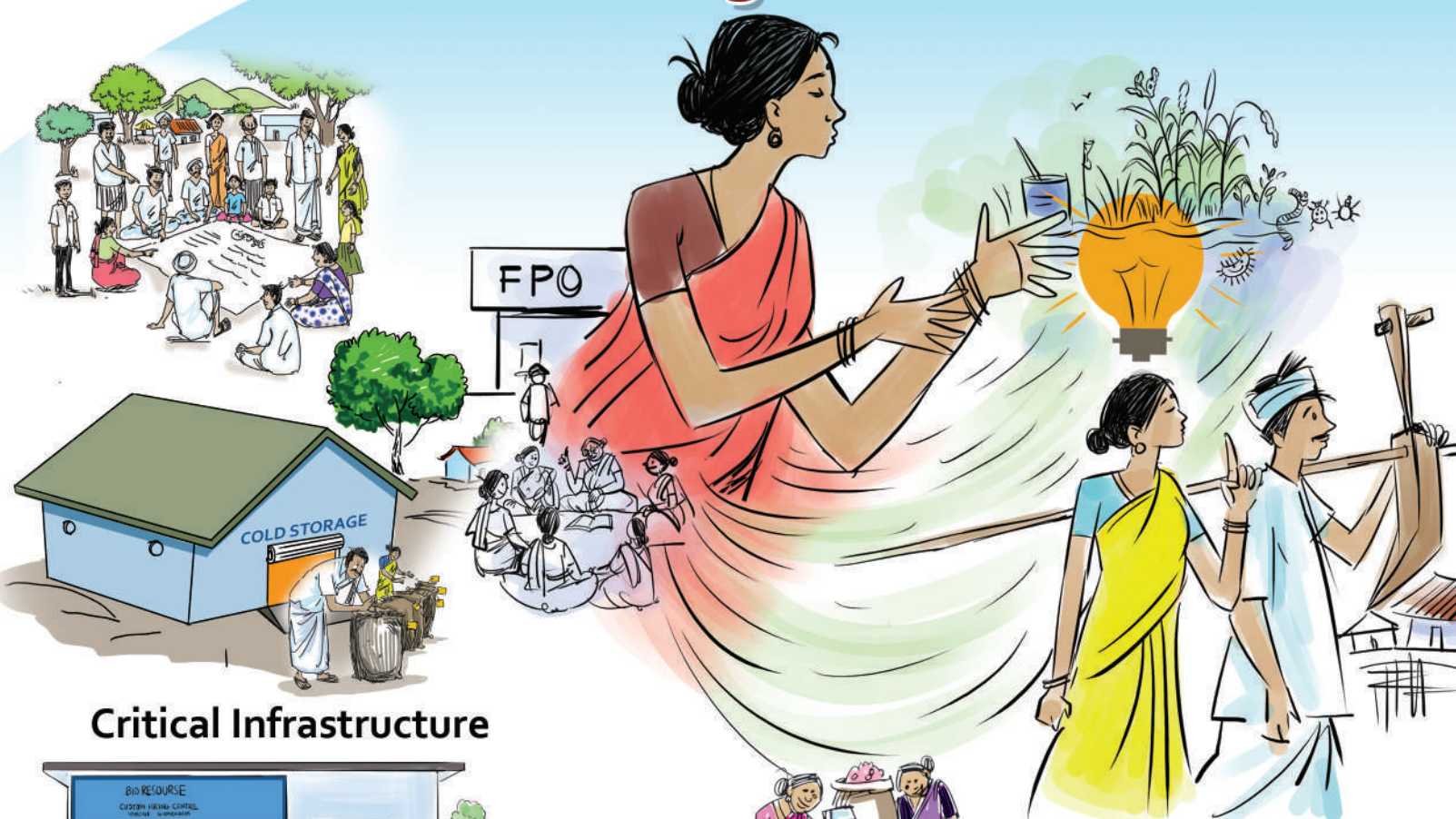


Knowledge sharing



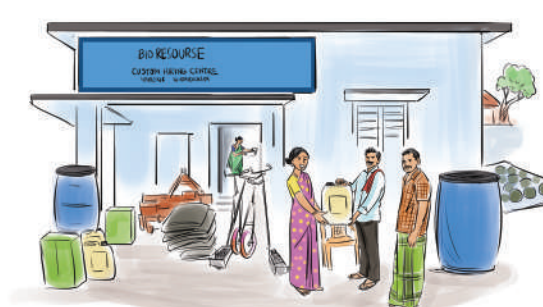
Innovations

Women Groups & FPOs Driving Forces for Natural Farming



Services & Market Linkages

Critical Infrastructure



Input support through
Bio Resource Centres

Value addition & Processing



Prosperity with Ecological Security

Multiple Benefits with Natural Farming

